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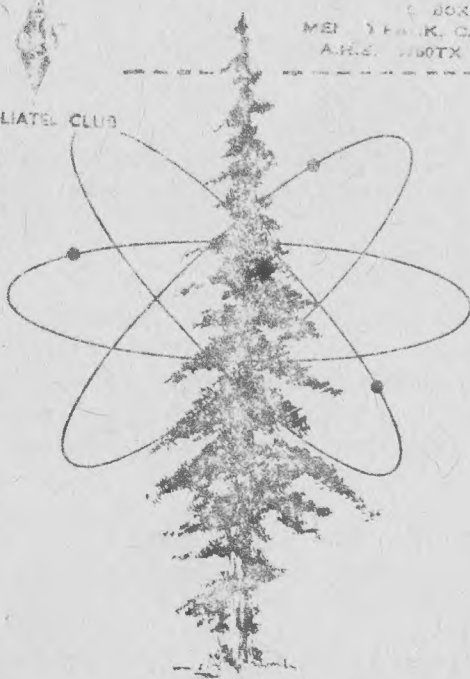
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PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

PO BOX 111  
 MENLO PARK, CALIF. 94025  
 A.M.S. W60TX U.S.A.

STATION W60TX

AFFILIATED CLUB



AFFILIATED CLUB

MENLO PARK  
 CIVIL DEFENSE  
 RADIO CLUB



K6YQT

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Vol.  
 XVII  
 1973

ARR. 73

## OFFICERS

## PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

## ADMINISTRATIVE

President: Fred Canham, K6YT  
 Vice Pres: Bob Baum, W6BFH  
 Secretary: Gene Reynolds K6QOM  
 Treasures: Vance Wardlow W6FLE  
 (Trustee W6OTX PAARA Club  
 Am. Radio Station)

## BOARD OF DIRECTORS

Chairmn: Fred Canham, K6YT  
 Sect'y : Gene Reynolds K6QOM  
 Member : Hal Moore, W6DEF  
 Member : Ed Fairbanks W6AIN  
 Member : Andy Korsak VE3FZK  
 Member : Paul Thekan (NC)  
 Member : Tom Ohlsson WB6KQZ

## Menlo Park C-D Radio Club

## OFFICERS

President: Fred Canham, K6YT  
 Vice Pres: Eric Reese, WB6KQX  
 Secretary/Treasurer: Vance Wardlow, W6FLE  
 Property Custodian: Bob Allen, W6WCD (Trustee K6YQT)  
 Asst Property Custodian: Steve Montoya, WN6DQT  
 RACES Radio Officer: Bob Allen, W6WQD  
 Asst RACES Rdo Off.: Vance Wardlow, W6FLE

## PAARAGRAPHS

## Staff

Managing Editor: Lee Zalaznik, WB6BJB  
 Ass't Editors : Andy Korsak, VE3FZK; Gene Reynolds K6QOM  
 Eric Reeze, WB6KQX; Tom Ohlsson, WB6KQZ; Gene Sussli,  
 WA6NVU (San Carlos Bugle).

## POLICY

1. Membership includes subscription to PAARAGRAPHS;
2. Annual dues \$4.00 per year;
3. Members will be dropped upon non-payment of dues;
4. Subscription to PAARAGRAPHS \$1.00 per year; non-subscribers will be dropped from mailing list as new names are added.

## APPLICATIONS FOR MEMBERSHIP,

Send \$4.00 dues to PAARA, P.O. Box 911, Menlo Park, Ca. 94025  
 For info call 854 0803

JOIN THE CLUB

BECOME A PARTICIPATOR

GET INVOLVED

COMING EVENTS

April 1973

Meeting Notice

Friday April 6, 1973 TIME: 7:30 pm PLACE: Menlo Park Recreation Center, PROGRAM: FCC Examination <sup>of</sup> Competition There will be competition in CW code speed, FCC type written exam, and operating procedures. There will be fun for all and prizes. The FCC type examination is being made by Gene Sussini W6NVU of San Carlos Radio Club. So come and join in the fun.

BOARD OF DIRECTORS MEETING

Wednesday, April 11, 1973 TIME: 7:30 PM PLACE: The TAMRA trailer at SRI in Menlo Park, Ca. All members and visitors are invited to come.

CRIME NEWS

A distress radio call <sup>to</sup> sent the Coast Guard out searching for a sinking small boat that was never found is believed to have been a hoax. The call, on a citizens' band frequency, said the 22 foot cabin cruiser Tina was sinking rapidly near the Bay Bridge with two adults and a child aboard..... "The search, at considerable expense to the taxpayer, appears to have been caused by a thoughtless hoax", A Coast Guard spokesman said. (From CARRIER de Oakland Tribune)

The Funny side of Amateur Radio

(From the CARRIER)

"Eeny, meeny, miney mo, how do you read my radio?"

"Fe, fi, fo, fum, loud and clear with a little hum."

\*\*\*\*\*

Growing old is mind over matter. If you don't mind, it doesn't matter.

## PAARA MEETING 2 MARCH 1973:

Assembled at the Menlo Park Recreation Center at the regular meeting time of 7:30. Our President Fred Canham, K6YT, opened the meeting with an announcement that he has found a fine source of excellent badges for Club members at \$1.50 each. He took orders during the evening. He reported the formation of the Radio Club at Foothills College and the meeting to be held the following Monday. He announced that the Board of Directors meeting would be held on the next Tuesday instead of Wednesday as scheduled. Field Day was discussed and it was announced that Oliver Sweningson now has the big emergency generator and has promised to have it at the Field Day site on time.

The speaker of the evening was Wayne Ryder, W6URH, who gave us an excellent run-down on the trials and tribulations of the Counter Designer. He pointed out that the art of design of counters has not been standardized and therefore the designer is faced with the problem of identifying all parts used and their adaptability to the particular circuit he is working on. Wayne has had extensive experience in such design and gave us an outline setting up a somewhat standard procedure in the design of counters. To hear Wayne tell it all anyone needs is the fundamental circuit and it becomes a matter of repetition to complete the most sophisticated counter on the market. Thanks Wayne for a fine dissertation on counters - we all gained a lot from it and feel more comfortable in our design efforts.

## BOARD OF DIRECTORS MEETING 3/6/73:

Five members attended. Old business included discussion of emergency power for Field Day - Sweningsen will deliver. Ed Fairbanks & Andy Korsak are working with Mike Bach to set up a system of making addresses for PAARAGRAPHS by use of a teletype. Problems of leaks in the Trailer were discussed - a work party will be set up. Gene Reynolds will prepare a letter to ARRL approving their resolution on the FCC reassignment of frequencies. All noted the new QTH of Andy Korsak, VE3FZK, 504 Lakemead Wy, Redwood City.

### NEW MUSEUM

A electronics industry museum has been established in the Space Science Center of Foothill College by the Perham Foundation. It's in Los Altos Hills on 12345 El Monte Road. Cost \$600,000 and features the private papers and tubes of Dr. Lee de Forest, plus an interesting assortment of early electronic devices collected by Douglas MacDonald Perham.

A feature of this museum is a recreation of the first regularly scheduled broadcast station, which started in operation as KN (San Jose) in 1901. It operated as KQW from 1921-1949 and then it became KCBS when it moved to San Francisco. Doctor Thomas Gates is the Director of this Space Science Center, and should be contacted if you are planning a field trip visit and may require special viewing hours.

The opening of this most interesting museum coincided with the Centennial of Dr. Lee de Forest's birth. Incidentally, Maria de Forest is WB6ZJR. (From CCRC Circle de LERC Bulletin).

### WE ASKED BEFORE :

It appears obvious that the FCC plans to go thru with the establishment of Class E CB operation on the 220-222 MHz band. Hams may get worked up enough to write objecting letter by the time the change has been made and that portion of the ham spectrum is lost. Too bad the letter won't be written until it's too late for them to help prevent this tragedy. Those who are too lazy to fight to retain what they have, deserve to lose it. (From CCRC Circle de LERC Bulletin).

### ATTENTION ALL AMATEUR RADIO OPERATORS OF PAARA

All PAARA member are urged to obtain the new NAME AND CALL BADGES. To order contact Fred Canham K6YT. The price is \$1.58 including tax, payable with order.

FOR SALE: Hammarlund SP-600 receiver; HT37 Halicrafter Xmtr; with mike, speaker & SWR Meter; 1 KW linear with power supp. in 5' x 18" rack. All for \$200. Call Herb WA6CGY 323 9281.



NEWS OF THE MEMBERS OF PAARA

By Vance Wardlow W6FLE

One of our older members (That is many years in the Club) Paul Mezzapelle jr., WA6NLJ, has reinstated his membership by paying up his back dues. Grand to have you back in the fold Paul, and we do hope you can get down this way for a meeting once in a while. Try getting on our 2 meter Net on 145.24 on Monday evenings at 7:45PM, it will be a good DX test! (You may even convince Lee Zalaznik WB6BJB that he can make it across the Bay on 2 meter from Pleasanton!)

Just to prove how versatile the member of PAARA are we now have a gourmet in our midst! Tom Ohlsson WB6KQZ, hit the headlines as a taster of crayfish! Pictured with his mother and a friend Tom was very impressive as a previewer of recipes for a new cook book. The only thing lacking in the picture was a solid state crayfish tester, designed by Tom Ohlsson. Good going Tom.

One of our oldtimers, Milt Donovan, W6MFN, went into Stanford Medical Center on 28 February for an operation on that hip he has been having such a time with. Milt came through the operation fine and now has a plastic socket with a stainless steel ball in his right hip. He is up and walking around without pain now and is looking forward to a lot of activity in the future.

One of our newer members, Paul Thekan ( When you going to get that license Paul??) found himself without transportation when his dad wrecked the family car! Paul couldn't put up with that so went searching for a car. Found a fellow wanting to sell his El Camino and bought it. Come to find out it was equipped with a racing transmission, oversize tires and a souped up engine. Paul got Mike Bach, WA6FFC, to give him a demonstration in how to handle such a wild animal and now has it under control. Take it real easy, Paul, and you may yet get that 2meter rig installed in the tool box.

Hey you fellers the Paara 2 meter Net is going strong. Get in there about 7:45PM on 145.24 and join the fun.

NEWS OF THE MEMBERS OF PACTA

By Vance Wardlow W6FLE

Oliver Sweningsen, Jr., WA6QGX, has recently set up at a new QTH. Oliver bought some acreage on top of a mountain in Costa Costa and is in the process of getting a home established. He has no PG&E power as yet and is using the Clubs Emergency power supply to keep in business. His location is ideal for a DX set up and he suggests we may want to consider setting up a 2 meter repeater up there-(keep it in mind and Nets have suggestions). Oliver promises we will have the power generator delivered to the Field Day site in plenty of time. His new QTH is 34400 Palomares Road, Caston Valley, Ca. 94546.

Speaking of new QTH's - Andy Korsak, VE3FLK, finally got moved into his after about a 6 months wait. Of course he selected a day to move on which it was raining cats and dogs! Loaded up a Hertz truck and five autos with his gear and household equipment. We took off like a regular caravan! Within the five miles a box fell off the truck, one auto engine heated up and had to be "rested", traffic was blocked at all the intersections and when we got to the new QTH the truck and autos were parked in all available space both in the driveway and on the street! To cap it all off Andys Volvo was too short-coupled to make it into the garage off the steeply sloping driveway! However it all worked out and Andy is now busily working on getting his antennas re-installed so he can get on the air.

NEW MEMBER OF PACTA

E.H. (Gene) Royer, WA6PSA, 644 Benito Ave., Menlo Park, Ca. Gene has an HQ-170 and an HX-10 Marauder that he uses on SSB and is a RTTY man. He teaches at Belmont School and gets a little Ham operating in once in a while. It's nice to have you aboard Gene. We hope you become a real PARTICIPATOR AND get in on some of our interesting projects.

Milton B. Adams, WB6KOR, 152 Hamilton Court, Los Altos, Ca. Milt works at SRI and is an active amateur.

Rg

<sup>8</sup>  
"Red" Johnson

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Capacitor  
Specials →

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47 MFD. - 6 VDC - 25¢

68 MFD. - 20 VDC - 85¢

Impulse  
Counter

6-Digit  
110 VDC.

#200



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Root

HAYDON  
Timer

27 VDC.

1½ - 2½ Min. (Adj.)

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Delay Line

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T<sub>d</sub> = 0 to 0.4 μsec

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WANTED

Donate to the S.C.U.A.R.C. !!!!! Got any radio gear or magazines you don't want? Have an A.M. Transmitter suitable for a boat anchor? Got some surplus "el junko" gear which you converted back in '47 still kicking around? A homebrew 5 meter rig maybe? If you want to get rid of ANYTHING having to do with amateur radio and want to see your name forever emblazoned upon the U. of Santa Clara's A.R.J. station, call me Rick Ferranti WA6NCX 1234 Santa Cruz Ave. Menlo Park, Ca. 94025 Phone number 324-1539. I'll pick up anything I can lift !!!!!.

WANTED

QST BINDERS FOR QST'S CALL PAUL THEKAN (NC) 369-4034

FOR SALE

Twenty foot tower section. Call Virg Barta, K6QNH 948-8603.

FOR SALE

Collins 75A4, in excellent condition has venire dial and two filter \$290.00. Gonset IV 2 meter Transmitter Receiver, lots of crystal. \$120.00. Older Yaesu FT-100 \$250.00. Lots of compomts for a kilowatt P.A. by W6CH, Call Irv Wolfe W6HHN for information about these and delivery Phone number 327-5363.

QUOTE UNQUOTE

"There's nothing more boring than it sit thru an hour or more more at least, every meeting night, half afraid of opening my mouth because Mr. Roberts in some form will jump down my neck for: being out of order." (From CARRIER)

ANTENNA HEIGHTS

Excerpted from the ARRL Pac. Div. Dir. Meeting  
Held in San Jose, Dec. 16, 1972.

Director Gmelin Reviewed the League Officials meeting held the previous Friday evening, noting that questions on antenna towers had been discussed at the meeting and that Ed Peck K6AN, was still giving some assistance or advice in situations where his specialized help was needed. It was felt that under the present approaches that a case could be made in court for towers up to 60' but that at this point one would be getting into a precarious area and that there was always the difficulty in basing a tower case on height alone.

There have been some evidences of amateurs being subjected to municipal ordinances with the obvious objective to zone amateurs out of existence. Antennas were always a question in such cases and there was also the provisions of the Environmental Protection Act to consider.

In California the environmental laws did not seem to offer a direct threat to the amateur and his tower but there was some question as to the role of the FCC under the national Environmental Protection Act. Initially Counsel Bob Booth had not felt that it applied by after digging into it at some length was leaning to the possibility that perhaps it might. The feeling was that the environmental laws did apply to any government licensing agency but in the long run there was a possibility that it might work to the advantage of the amateur. This would possibly come through the federal law pre-empting the field over any local law and the League Officials meeting had adopted a motion to get the FCC into the act.

In Fairfield, Calif. , there had been an attempt by the city government to levy a special fee or tax on amateur antennas. This apparently had been withdrawn with some question of its legality was pointed out, the tax not being equitable in its application to all antennas. (From the CCRC Circle)

ARRL OFFICIAL BULLETINS

#411 February 1.

The January 1973 Club Bulletin has now been mailed to all active ARRL affiliated clubs. This issue contains the annual club survey forms which must be completed and returned to ARRL as rapidly as possible. In cases where recent officer elections have been held, the bulletin may reach a former officer. Thus, if your club is affiliated by has received no bulletin by March 15, the address of the current club secretary should be sent to Headquarters with a request for a duplicate club bulletin.

#412

The FCC has extended the time for filing comments on Docket 19658 to Feb. 28 and the time for filing reply comments to March 15. This docket covers proposed increases in filing and grant fees for virtually every non-government radio service regulated by the Commission. In the case of amateurs, the proposed filing fee for new, upgraded, renewed or modified and renewed licenses would be ten dollars, while the fee for modification alone would remain at five dollars, special call signs at twenty five dollars. There would still be no charge at all for new or modified Novice licenses, RACES authorizations, or military recreation station licenses. The League will file opposition, as on past occasions. This bulletin updates the information appearing on page ten February QST.

AMATEUR RADIO PUBLIC SERVICE COPS

BY Hal Moore W6DEF

The renewal of W6DEF and K6OTR is now in the hands of the FCC this of course, has been done many times before. This time they wanted to see the constitution of the organization backing K6OTR and a certification that such was the Constitution and that W6DEF has been appointed the Trustee. K6OTR was first licensed in 1955 and W6FHK and W6DEF were two of the original (Charter)members.

## NEWS FROM AROUND THE BAYAREA

### HAMFEST DELEMMA SOLVED

As purveyors of diplomatic expertise Henry Kissenger and Le Duc Tho have nothing on the representatives of the ARRL conventions and the Bay Area Hamfest Committee. The intricate problems of how to satisfy both groups needs without bloody conflict were solved in principle by agreement to hold each event on alternate years and different locations.

At the present writing the ARRL convention will be held in Santa Cruz Oct. 13-14

Bay area hams can now support both events wholeheartedly and we hope that the programs, lectures and other events being planned for the Convention will reflect the desires of all segments of the amateur radio fraternity. We will have more to say about this in a latter issue of QSA-5, but we think the time is now for amateurs who find ARRL conventions and Hamfests lacking in some respects to make their gripes or wishes known to the appropriate committee. The other side of the coin is that those planning the event should make a concerted effort to find out what it is that the amateur would like to hear, do and see. (From CCRC Circle de MARIN ARC 'QSA-5')

### NEW RADIO STORE

Doug Murry, W6Hvn, has opened a new store called M-TRON, in Oakland to handle the complete Drake line, plus Hallicrafters, HY-GAIN, and other amateur goodies. It's at 2811 Telegraph Ave. (about two block north of Sears), Zip 94609 and phone is 763-6363. George Wagner, WB6TAO will also be with him. Lots of Luck Fellows.  
( From CCRC Circle)

### The AUCTION CIRCUIT

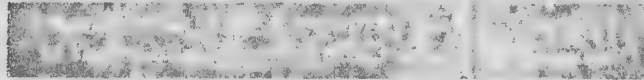
The following schedule of Club Auctions will allow you to be more relaxed in your purchase of those itens you have always wanted to try. Apr 6 , Marin ARC , Apr 8, Grizzley Peak VHF RC, May 11, EBRC.

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FOOTHILL COLLEGE AMATEUR RADIO CLUB

By Fred Canham K6YT

The second meeting of the newly formed amateur radio club at Foothill College was held Monday night, March 19th in the Space Science Center on the campus. Jack Eddy opened the meeting and announced the names recomened for club officers by the nominating committee. After brief disussion the following officers were elected..

Pres. Fred Barry K6RTU  
Vice Pres. Fred Canham K6YT  
Secretary: Jack Eddy (NC)  
Treasure: Sy Stein WA6RCM  
Radio Officer: Boss Forbes WB6GFJ  
Activities Manager: Jerry Starkey WA6LIJ

At this point the new president took over the meeting, and promptly appointed Jerry Starkey editor of the club paper. In the next order of business Walt Seed W6ASH and Jerry Holter K6CCP were appointed the task of est blishing code Classes. One important item remained unsolved What would be the name of this new club? Any Suggestions?

The group meets on the third Monday of each Month at 7:30PM in the Space Science Center. Why not lock them over at the next meeting April 16th. See you there.

MEET THE PRESS

World radio News says that Al Nielsen WA6AGA committed the resources of the Grizzly Repeater facilities for the emergency communications on the night of the terrible jet crash in Alameda Feb.5, and that Betty Smothers WA6CCS and her relief compiled 17 pages of radio log before securing three days later. This source also said that an article highlighting this and featuring Betty appeared in the Alameda Times Star. (From the CARRIER)

p.15

TECHNICAL TOPICS de WA6NCX Rick Ferranti  
A CIRCULAR QUAD ANTENNA FOR TWO METERS

Aside from the fact that the title is a contradiction of terms, the antenna to be described does a very fine job of squirting 144 MHz RF juice in the general direction desired. A solid contact into Stockton from my dorm room, eight floors up at the U. of Santa Clara, using a Communicator III barefoot shows what it can do.

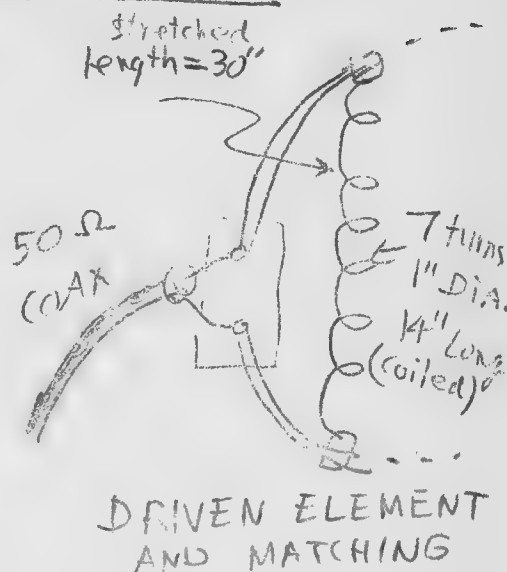
Numbers below (83"↓ 89"↓ 78"↓)

Basically, you should obtain some #3 or #6 aluminum ground wire from the local hardware store along with a hunk of rigid PVC pipe about 3-feet long. You'll need about 22 feet of the wire. Bend the wire into three circles as shown in the diagram, one 78" in circumference, the others 83" and 89" in circumference. Hammer the ends flat and join the largest and smallest loops' ends together with a screw, lockwasher, and nut. That completes the director and reflector elements. The driven element can be directly fed with 50 ohm coax, at the side for vertical polarization, at the top or bottom for horizontal polarization. More esoterically minded readers will cringe when realizing that the three elements are hung from the boom and taped there, using good old Scotch #22 electrical tape. My antenna has hung ominously that way for over a month. Works.

Somebody at SRI will have lots of fun figuring out why my matching network gives a virtually perfect match at 145 MHz, rising slightly across the whole 144-146.5 "AM" band. The matching is a piece of hookup wire about 30" long, wrapped in a loose 1" spiral ending up 14" long. You strip the ends, tie it on either end of the feedpoint, and slide the ends around until the crazy thing gives you an SWR of reasonable magnitude at your favorite frequency (145.240--right, gang?). Actually it's 145.224 - better check. into that calculator of yours, Vance (Andy)) Unless you know how to solder to aluminum, tape the wire ends to the final position and mount the antenna on a wooden mast (at least 6-feet long). Many thanks go to WB6JNN for the dimensions he gave me for the elements.  
(see diagram p.16)

Good Luck--WA6NCX

P. 16



Andy Korsak VE3FZK/W6

<u>Orbit</u>	<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Direction</u>	<u>Direction</u>
		(ZULU)	+15min.	<u>of pass</u>	<u>from S.F.</u>
2072	Fri.	Mar.30	0355	S to N	East
2073	"	"	0550	"	West
2073			1620	N to S	E
2073			1315		W
2034	Sat.	Mar.31	0257	S to N	E
2035			0452		Over
2036			0647		W
2090			1522	N to S	E
2091			1717		Over
2092			1912		W
2097	Sun.	Apr.1	0350	S to N	E
2098			0545		W
2103			1617	N to S	E
2104			1312		W

(Cont'd p. 17)

(cont'd p. 17)

p.17

2160	Fri.	Apr.6	0433	S to N	E
2161			0623		W
2165			1503	N to S	E
2166			1653		Over
2167			1353		W
2172	Sat.	Apr.7	0333	S to N	E E
2173			0523		W(almost over)
2174			0723		W(max range)
2179			1615	N to S	E
2180			1810		W
2185	Sun.	Apr.8	0423	S to N	E
2186			0623		W
2190			1455	N to S	E
2191			1650		E(almost over)
2192			1845		W
*****			*****		*****
2247	Fri.	Apr.13	0313	S to N	E
2248			0513		Over
2249			0703		W
2253			1546	N to S	E
2254			1741		W
2260	Sat.	Apr.14	0413	S to N	E
2261			0603		W
2265			1443	N to S	E(max range)
2266			1633		E(almost over)
2267			1833		W
2272	Sun.	Apr.15	0313	S to N	E
2273			0503		Over
2274			0703		W
2278			1533	N to S	E
2279			1733		W(almost over)
2280			1923		W(almost out of range)
*****			*****		*****

NOTE: OSCAR VII is turned off MON-THURS.  
(for recharging batteries by solar cells) (GMT)

For week-end of Apr.20-22 add 263 to orbit no. and use data for Mar.30-Apr.1. Similarly, for Apr.27-29 add 263 to orbit no's of data for Apr.6-8, and so on. This will result in an error of only 3 min. or so. After a few 21 day cycles you have to figure it all over again from scratch.

SAN CARLOS BUGLE  
(San Carlos C-D Radio Club)

Well it is this time again. You know the time when the flowers poke their little heads out of the ground and the birds are singing in the sky! This is the time that we are off to the races. And the race is called FIELD DAY 1973! !

At our last meeting on March 15 we laid our preliminary plans for the years "contest. Our Field Day Committee has been selected and is as follows:

Gene Sussli WA6NVU, Chairman

Al Newbold W6MMG

Larry Daily W6KZ

Jack Kwei

Ken Keeler

We reviewed our mistakes (?? I didn't know we made any!) of last year and the general consensus was that we again would assemble a 50' mast, about 1 1/2" in diameter on the ground and then try to raise it in one piece. Bill Jackson is very sure that this will work, but stopped short of guaranteeing that in the final analysis we would have a beam at least 12 feet off the ground. Well, I guess it is worth a try, after all, this would be about 2 feet higher than we were last year. Hi Hi! !

This year we may have some competition from the San Mateo Radio Club. How about that, I hereby would like to ask the Palo Alto Club if we should invite San Mateo to compete for the Tri-City Plaque. Just look at the advantage, at the next Christmas part the President of the Palo Alto Club can get up and say "Ladies and gentlemen I am proud to announce that our Club secured 2nd place in our interclub contest". And man that sounds a heck of a lot better than having to say "We came in last".

The intra-Club contest in the San Carlos Club is already in full bloom. As Field Day Chairman I have challenged our honorable President to a duel and I intend to win! I am allowed a handicap of 100 contacts for allowing Bill the choice 20 Meter spot. Good Luck - May the best man win! 73 Gene



# HALTEK ELECTRONICS

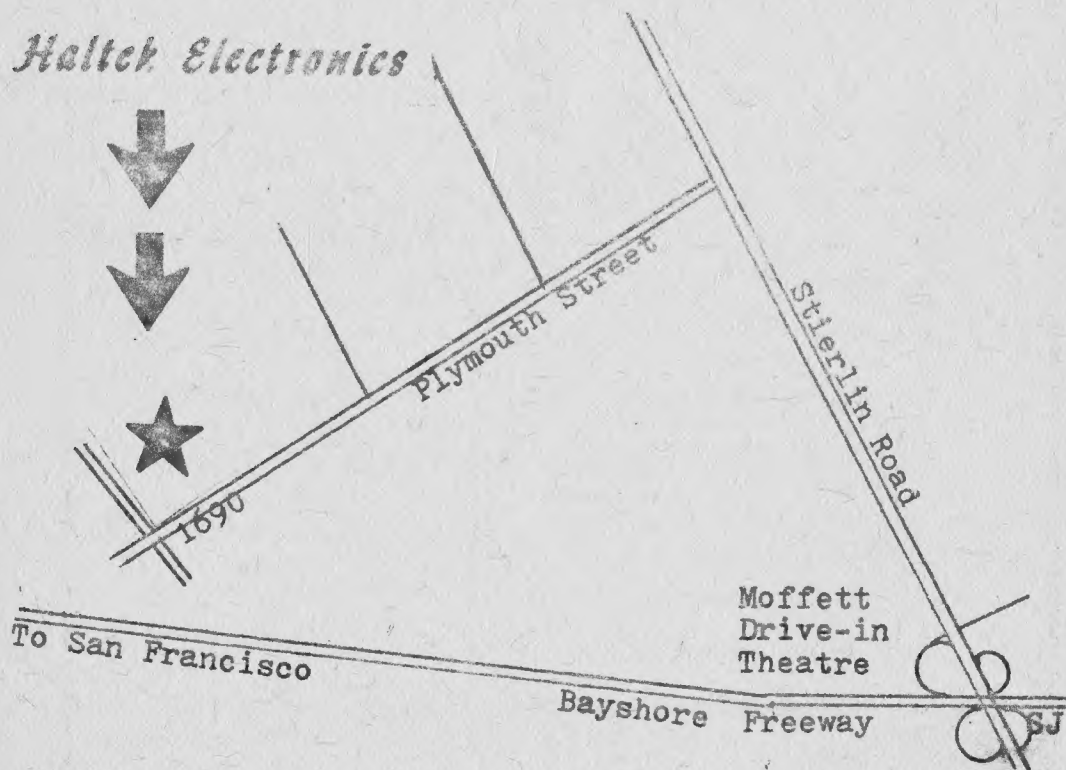
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